

APPENDIX C: EXAMPLE PERFORMANCE EVALUATION WORKSHEETS

This appendix contains two worksheets designed for evaluating the performance of ink remover and emulsion and haze remover for screenprinting. These worksheets can be adapted for other performance evaluations. These worksheets also can be found on the DfE website, as Appendices I and J in the *Cleaner Technology Substitutes Assessment* for the DfE Screenprinting Project.

INK REMOVER EVALUATION SHEET

Evaluation # _____

Facility name and location: _____

Date: _____ Time: _____ Ink Remover employee's name: _____

	<i>Fill in the blank or circle the appropriate characteristic. Make any notes or comments in the space to the right.</i>
Screen Condition	
Screen identification and history	<ul style="list-style-type: none">• Enter the identification marking (tracking) code for the screen: • Estimate how much ink was left on the screen?
Screen size	_____ inches x _____ inches
Screen condition and threads per inch	<ul style="list-style-type: none">• Note screen condition including any rips, holes, corrosion: • Record the screen mesh size: _____ threads/inch
Mesh (Record mesh material type and type of mesh treatment, (e.g., abraded, calendared, etc.) if any)	<ul style="list-style-type: none">• Mesh type: • Mesh treatment:
Number of impressions of the screen's last run	
Ink type	<ul style="list-style-type: none">• Circle one: Solvent-based, UV, Water-based • Specify manufacturer and series #:
Ink color	<ul style="list-style-type: none">• Circle one: Blue, Black, Other (specify):
Emulsion type	<ul style="list-style-type: none">• Circle one: Capillary film, Direct photo, Dual cure, Other (specify): • Specify manufacturer and series #:
% Ink Coverage	<ul style="list-style-type: none">• Check one: 0 - 25%...G 25 - 50%...G 50 - 75%...G 75 - 100%...G

INK REMOVER EVALUATION SHEET

Evaluation # _____

Drying Time	Time between end of press run and start of ink removal <u>with product</u> _____ (hours or mins.; specify units)
Performance	
Ink Remover Dilution	_____ (enter ratio) or "none"
Quantity of Ink Remover Used	_____ oz.
Time (enter time from application of ink remover until screen is ready for the next step)	Note: Do not include screen positioning or clean up time. _____ mins.
Physical effort required (circle rating and comment)	Low, Moderate, High
How many wipes did you use?	
Was a pressure washer used?	(check one) Yes _____ No _____
Examine screen after ink removal.	Did the ink remover effectively and easily remove the ink? (Also note any side effects of the product on the screen)
Comments or suggestions - Record any comments and note anything unusual about the reclamation on a separate sheet of paper. (e.g., did you have to reapply the product? why was the screen hard to clean?)	

INK REMOVER EVALUATION SHEET

Evaluation # _____

Facility name and location: _____

Date: _____ Time: _____ Screen Reclamation employee's name: _____

	<i>Fill in the blank or circle the appropriate characteristic. Make any notes or comments in the space to the right.</i>
Screen Tracking	
Screen identification	<ul style="list-style-type: none"> • Enter the identification marking (tracking) code for the screen: _____
Performance	
Drying Time <i>(Specify units; hours or mins.)</i>	<ul style="list-style-type: none"> • Time from ink removal completed to start of emulsion removal: _____ • Time from emulsion removal completed to start of haze removal: _____
Dilution	<ul style="list-style-type: none"> • Emulsion Remover _____ (ratio) or none • Haze Remover _____ (ratio) or none
Quantity of Product Used	<p>Enter # of ounces used:</p> <ul style="list-style-type: none"> • Emulsion Remover _____ ounces <p>Enter # of ounces used:</p> <ul style="list-style-type: none"> • Haze Remover _____ ounces
Product Use Time <i>(enter time from application of product until screen is ready for the next step)</i>	<ul style="list-style-type: none"> • Emulsion Remover _____ mins. • Haze Remover _____ mins.
Was a pressure washer used?	<ul style="list-style-type: none"> • For emulsion removal? (check one) Yes _____ No _____ • For haze removal? (check one) Yes _____ No _____

Physical effort required <i>(circle one for each step and describe the level of effort)</i>	• Emulsion Remover: <i>circle one: Low, Med., High; Describe if the stencil dissolved easily or slowly, and if a great deal or very little scrubbing took place:</i>
	• Haze Remover: <i>circle one: Low, Med., High; Describe the effort required for haze removal:</i>
Examine screen after emulsion removal.	<ul style="list-style-type: none"> • Is there any ink haze or stencil stain on the mesh? If so, describe: • If any emulsion is still present, describe the residue left on the screen in detail:
Examine screen after reclamation is complete.	<ul style="list-style-type: none"> • Can the screen be reused for all jobs? <i>check one:</i> Yes _____ No _____ If "No", describe why the screen cannot be reused: <i>(e.g., Is there is a ghost image? Can the screen be used for reverse printing? Can it be used for close tolerance work? Can transparent inks be used with it?)</i>
Examine the substrate image after the screen is reused. Comment on the print image quality.	
Comments - Record any comments and note anything unusual about the reclamation on a separate sheet. (e.g., did you have to reapply the product? why was this screen more difficult to clean?)	